

AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 5 as follows.

1. (Currently Amended) A two-wire type communication system utilizing two-wire transmission lines for transmitting a transmission signal represented by two AC components being opposite in phase appearance, comprising:

a plurality of nodes respectively connected to said two-wire transmission lines, each of said nodes having therewithin a low pass filter connected to said transmission lines, and two terminating resistors respectively connected to said transmission lines via said low pass filter so as to terminate said transmission lines at different DC potentials via said low pass filter,

said terminating resistors comprising a first terminating resistor for supplying a first predetermined DC potential to one of said two-wire transmission lines and a second terminating resistor for supplying a second predetermined DC potential different from said first predetermined DC potential to the other of said two-wire transmission lines,

2. (canceled)

3. (Previously presented) A communication system utilizing two-wire transmission lines for transmitting a transmission signal represented by two AC components being opposite in phase appearance, comprising:

a plurality of nodes respectively connected to said two-wire transmission lines, each of said nodes having therewithin:

a low pass filter connected to said transmission lines,

two terminating resistors respectively connected to said transmission lines via said low pass filter, and

a reception circuit for receiving said transmission signal, said reception circuit including:

an AC coupling circuit for extracting said AC components from said transmission signal on said transmission lines;

a bias circuit for applying a bias voltage to the AC components
extracted by said AC coupling circuit; and
a clip circuit for clipping the level of each of the extracted AC
components.

4. (Previously Presented) A reception circuit for receiving a transmission signal represented by two AC components being opposite in phase and appearing in a communication system utilizing two-wire type transmission lines, comprising:
an AC coupling circuit for extracting said AC components from said transmission lines;
two bias circuits being independent from each other and each for applying a bias voltage to each of the AC components extracted by said AC coupling circuit; and
two clip circuits being independent from each other and each for clipping the level of each of the biased AC components at levels between a potential and a ground level.
5. (Currently Amended) A reception circuit ~~according to Claim 4,~~ for receiving a transmission signal represented by two AC components being opposite in phase and appearing in a communication system utilizing two-wire type transmission lines, comprising:
an AC coupling circuit for extracting said AC components from said transmission lines;
two bias circuits being independent from each other and each for applying a bias voltage to each of the AC components extracted by said AC coupling circuit; and
two clip circuits being independent from each other and each for clipping the level of each of the biased AC components at levels between a potential and a ground level,
wherein each of said clip circuit comprises: a resistor having one terminal connected to a reference potential; a bias current supply circuit for supplying a fixed bias current to said resistor; and a diode connected between the other terminal of said resistor and an output line of said AC coupling circuit.

Please add new claim 6 as follows.

6. (New) A two-wire type communication system according to claim 1, in which said low pass filter includes an input terminal, a resistor having one terminal thereof connected to said input and a capacitor connected across the other terminal of said resistor and a reference potential.